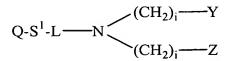
ABSTRACT

A metal chelating composition having the formula:



wherein

Q is a carrier;

5 S¹ is a spacer;

L is -A-T-CH(X)- or -C(=O)-;

A is an ether, thioether, selenoether, or amide linkage;

T is a bond or substituted or unsubstituted alkyl or alkenyl;

X is $-(CH_2)_kCH_3$, $-(CH_2)_kCOOH$, $-(CH_2)_kSO_3H$, $-(CH_2)_kPO_3H_2$, $-(CH_2)_kN(J)_2$,

10 or - $(CH_2)_k P(J)_2$, preferably - $(CH_2)_k COOH$ or - $(CH_2)_k SO_3 H$;

k is an integer from 0 to 2;

J is hydrocarbyl or substituted hydrocarbyl;

Y is -COOH, -H, -SO₃H, -PO₃H₂, -N(J)₂, or -P(J)₂, preferably, -COOH;

Z is -COOH, -H, -SO₃H, -PO₃H₂, -N(J)₂, or -P(J)₂, preferably, -COOH; and

i is an integer from 0 to 4, preferably 1 or 2.